

# **INDEX**

**CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS**

**Volume 11, Numbers 1-12, 1975**

-25

# AUTHOR INDEX

## CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS

Volume 11, Numbers 1-12, 1975

(A translation of Khimiya i Tekhnologiya Topliv i Masei)

### A

- Abad-Zade, Kh. N. - 762  
Abdrakhimov, Yu. R. - 765  
Abdullaev, E. Sh. - 642, 920  
Abushek, V. A. - 895  
Adel'son, S. V. - 583  
Aérov, M. É. - 122  
Agafonov, A. V. - 298, 352, 496,  
514, 861  
Agiyevskii, D. A. - 887  
Airapetova, É. K. - 762  
Akchurina, T. Kh. - 474  
Akhmedov, A. I. - 474  
Akhmetova, R. S. - 107, 934  
Aksenov, A. F. - 341  
Aleksandrova, L. A. - 966  
Alekseeva, M. P. - 368  
Aliev, M. I. - 315  
Aliev, R. R. - 128, 352  
Aliev, V. S. - 762  
Alieva, L. G. - 955  
Alkhazov, T. G. - 315  
Alyanova, T. E. - 738  
Amerik, B. K. - 118  
Andryushenko, T. P. - 9  
Andryushina, A. A. - 193  
Antipova, K. M. - 213  
Antonishin, V. I. - 531  
Arabyan, S. G. - 388  
Artukhov, I. M. - 173  
Arutyunov, Yu. I. - 72  
Astaf'ev, V. A. - 552, 597  
Avdei, G. M. - 81  
Averin, B. K. - 383  
Azev, V. S. - 347, 881

### B

- Babaeva, I. D. - 920  
Babash, T. A. - 985  
Bagdasaryan, B. V. - 315  
Bagirov, R. A. - 683  
Bagirov, A. Yu. - 683  
Bakaleinikov, M. B. - 554

- Balandina, K. L. - 765  
Barabadze, Sh. Sh. - 143  
Baranov, B. N. - 335  
Baranova, N. G. - 841  
Bardov, S. A. - 364  
Barkov, I. I. - 947  
Barkovskaya, E. B. - 646  
Barsukov, E. Ya. - 538  
Baryshnikova, L. G. - 122, 714  
Basov, V. A. - 89, 295, 547  
Bauman, V. N. - 302, 722  
Belous, A. R. - 629  
Belousov, A. N. - 931  
Belov, M. V. - 609  
Belov, P. S. - 558  
Belova, G. M. - 509  
Belozerova, K. E. - 383  
Belyaev, Yu. A. - 166  
Belyaeva, Z. G. - 418, 765  
Belyi, N. N. - 104  
Ben'kovskii, V. G. - 687  
Berezina, R. M. - 811  
Berezovskaya, E. N. - 485  
Berg, G. A. - 9, 477  
Bezuglov, M. P. - 538  
Bikkulov, A. Z. - 517  
Biktasheva, M. F. - 701  
Blagovidov, I. F. - 878  
Block, N. V. - 65  
Bogatova, A. I. - 97  
Bogdanov, I. E. - 104  
Bogdanov, M. V. - 626  
Bogdanova, T. I. - 734  
Bolotin, N. K. - 818, 892  
Bolzhenko, L. I. - 633  
Bondar', A. E. - 923  
Bondarenko, B. I. - 600  
Borisov, V. D. - 552, 597  
Boronvneva, É. L. - 931  
Borovaya, M. S. - 378  
Borschhevskii, S. B. - 853  
Borukhova, M. S. - 586  
Botnikov, A. Ya. - 591  
Boyarskaya, É. V. - 93  
Brants, E. M. - 23

- Brodskii, E. S. - 143, 841  
Brun-Tsekhouvoi, A. R. - 614  
Bugai, E. A. - 765  
Bugai, V. T. - 360  
Bukhtenko, O. V. - 844  
Bunakov, B. M. - 458  
Burak, Z. G. - 916  
Bursian, N. R. - 162, 259  
Bushueva, N. N. - 40  
Bykova, T. M. - 588

### C

- Chegodaev, F. A. - 697  
Chekhovskaya, O. F. - 564  
Cherches, B. Kh. - 916  
Cherednichenko, G. I. - 504  
Cherkashin, M. I. - 383  
Chernetskaya, T. I. - 322  
Chernova, K. S. - 404  
Chernyak, T. S. - 206  
Chernyakova, G. N. - 514  
Chertkov, Ya. B. - 811  
Chesnokov, A. A. - 902  
Chuprin, I. F. - 774  
Chuprov, Z. G. - 420  
Churshukov, E. S. - 178, 356

### D

- Danilov, A. M. - 383  
Davydov, P. I. - 372  
Davydova, Z. A. - 162  
Dedova, N. Ya. - 178  
Deinega, Yu. F. - 578  
Demchenko, V. S. - 973  
Deryabin, A. A. - 722  
Didyuk, E. E. - 564  
Dimitrov, B. - 139  
Dintses, A. I. - 55  
Dmitrieva, O. P. - 432  
Dolmatov, L. V. - 33  
Donchenko, N. A. - 23  
Dorogochinskii, A. Z. - 253  
Dorokhov, A. P. - 153

Driatskaya, Z. V. - 250  
Dulatov, Yu. A. - 198  
Dvorkina, T. N. - 623  
Dyadyunov, V. A. - 72  
D'yakonova, K. D. - 594  
Dzhagatspanyan, R. V. - 481

## E

Efimova, A. K. - 110  
Efremov, V. N. - 364  
Egiazarov, Yu. G. - 464, 916  
Egidis, B. M. - 774  
Egorov, A. S. - 493  
Éidina, T. I. - 839  
Éigenson, A. S. - 488  
Éigenson, S. O. - 188  
Eletskii, N. P. - 637  
Emel'yanov, A. N. - 33  
Emel'yanov, N. F. - 400  
Emel'yanova, A. A. - 466  
Énglin, B. A. - 128, 335, 352,  
368, 619  
Enikeeva, L. S. - 178  
Ermakova, T. I. - 221, 897  
Ermolaeva, A. N. - 202  
Ermolov, F. N. - 131, 135, 202,  
558  
Evtyukhin, N. A. - 198

## F

Fal'kovich, Yu. G. - 789  
Fat'yanov, A. D. - 966  
Fedorov, G. I. - 572  
Fedorov, M. I. - 815  
Fedorova, T. V. - 799  
Fedosova, A. K. - 59  
Fernandez-Gomez, M. M. - 148  
Filippov, V. F. - 694  
Filippova, M. A. - 844  
Fisher, S. I. - 315  
Fritsler, L. A. - 450  
Froishteter, G. B. - 895  
Frolov, E. I. - 815  
Fryazinov, V. V. - 934  
Fufaev, A. A. - 853  
Fuks, I. G. - 213, 462, 554,  
652, 734, 799, 822

## G

Gaeva, L. I. - 529  
Gairbekov, T. M. - 253  
Gaisin, A. S. - 481  
Galich, P. N. - 14  
Galimov, Zh. F. - 765

Gal'pern, G. D. - 237  
Gaponenko, O. I. - 14  
Gel'chinskaya, L. B. - 206  
Gel'ms, I. É. - 679  
Gel'perin, N. I. - 769  
Gimaev, R. N. - 181  
Gladikh, V. A. - 368  
Glagoleva, O. F. - 424, 588  
Glebova, N. A. - 869  
Glozman, E. P. - 107, 934  
Golosov, S. A. - 674  
Golovchin, G. A. - 529  
Golubeva, I. A. - 597  
Goncharenko, A. D. - 269  
Gonzales, A. G. - 319  
Gorbunov, G. V. - 804  
Gordadze, G. N. - 237  
Gordash, Yu. T. - 731, 895, 980  
Gorechenkova, N. A. - 20, 916  
Granovskii, Yu. V. - 804  
Grigor'ev, A. I. - 378  
Grigor'ev, B. A. - 649  
Grigor'ev, M. A. - 364  
Grinberg, A. A. - 237  
Grishchenko, N. F. - 603  
Grishin, A. P. - 72  
Groisman, S. A. - 609  
Gubernskii, V. I. - 114  
Gudasheva, V. M. - 706  
Gulin, E. I. - 629, 973  
Gureev, A. A. - 347, 360, 966  
Gureev, Al. A. - 561, 966  
Gurevich, V. I. - 583  
Gusarova, M. S. - 206  
Guseinova, A. D. - 762  
Guseinzade, S. M. - 474  
Gusel'nikova, L. A. - 950  
Gusev, L. N. - 118  
Gusev, V. K. - 89, 295  
Gusevskii, V. N. - 221  
Gutman, B. E. - 521

## I

Iglamova, N. A. - 278  
Il'enko, B. K. - 614  
Il'ina, A. I. - 86  
Ioakimis, É. G. - 110, 188  
Ionis, M. G. - 400  
Ishchuk, Yu. L. - 822, 895  
Islamov, R. S. - 418  
Ismailov, A. G. - 642, 920  
Istomin, V. G. - 53  
Itzikson, L. B. - 594  
Itzikson, T. M. - 594  
Ivankina, É. B. - 652  
Ivanov, A. L. - 368

Ivanov, V. I. - 131  
Ivanova, N. N. - 869  
Ivanovskii, G. F. - 335  
Ivchenko, E. G. - 477, 488  
Izmailov, R. B. - 33  
Izmailov, R. I. - 572  
Izmailov, V. D. - 947

## K

Kachurina, G. V. - 368  
Kagan, L. Kh. - 586, 594  
Kaganer, G. S. - 428  
Kalechits, I. V. - 436  
Kalinin, L. L. - 28, 988  
Kalinina, V. P. - 955  
Karataev, K. K. - 514  
Karpiev, V. M. - 619  
Karpukhovich, D. T. - 118  
Kartechin, V. N. - 717  
Kartinin, B. N. - 462, 799  
Karzhev, V. I. - 777, 804  
Kasich, P. D. - 364  
Katsobashvili, Ya. R. - 509, 614,  
674, 757, 844  
Kavetskii, G. D. - 717  
Kaz'min, G. I. - 153, 743  
Kegel', Kh. - 454  
Kekukh, A. F. - 104  
Kel'tsev, N. V. - 679  
Kevorkova, I. S. - 858  
Khaikin, M. D. - 619  
Khanlarov, G. - 211  
Khanlarov, T. G. - 928  
Khavkin, V. A. - 861  
Khazipov, R. Kh. - 517  
Kheifets, A. E. - 547  
Kholodenko, N. A. - 807  
Khor'kov, V. G. - 243  
Khromykh, V. F. - 985  
Khydyrov, B. S. - 762  
Kiripichev, V. M. - 950  
Kislitsyna, N. I. - 597  
Klimenok, B. V. - 697  
Klimov, A. K. - 55, 131  
Klimov, K. I. - 633  
Klionskaya, G. D. - 762  
Klopov, B. N. - 644  
Kochetkova, N. A. - 9  
Kochetkova, N. S. - 211  
Kochetkova, T. V. - 938  
Kolbasin, A. Ya. - 418  
Kolesnikova, L. V. - 420  
Kolosova, É. V. - 980  
Konakhin, A. M. - 959  
Konakova, S. A. - 878

Kondakova, N. F. - 237  
Kondrat'eva, R. P. - 278  
Konstantinova, E. E. - 458  
Korbut, I. R. - 895  
Korotkov, P. I. - 501, 916  
Korovin, V. A. - 68  
Korzun, N. V. - 420  
Kosarskaya, Yu. P. - 462  
Kosheleva, M. K. - 717  
Kotova, A. V. - 514, 687  
Kozlov, I. T. - 861  
Kozlov, L. M. - 525  
Kozlov, N. S. - 440  
Kozlovskiy, A. P. - 652  
Kraeva, L. S. - 950  
Krashenninikova, V. K. - 28  
Krasnokut'skaya, M. E. - 626  
Kravchenko, I. N. - 820  
Krein, S. È. - 178, 374, 466  
Kristal'naya, M. S. - 985  
Krokhin, N. G. - 717  
Kruglova, T. F. - 53  
Kruglikov, V. Ya. - 496  
Krylov, I. F. - 597  
Krylova, G. I. - 466  
Krylova, I. A. - 521  
Ksandopulo, G. G. - 122, 714  
Kudryavtseva, N. A. - 623, 853  
Kuklinskii, A. Ya. - 443  
Kukushkin, A. A. - 966  
Kuliev, A. M. - 683  
Kulikov, A. E. - 188  
Kulikov, V. I. - 646  
Kurganov, V. I. - 639  
Kurganov, V. M. - 298  
Kurkova, N. S. - 674, 844  
Kurkovskii, Z. M. - 81  
Kushnir, I. L. - 198  
Kuttykadamov, S. R. - 514  
Kuz'menko, N. I. - 600  
Kuz'michenkova, I. A. - 28  
Kuz'min, S. T. - 264  
Kuz'min, V. I. - 477  
Kuz'mina, A. V. - 738  
Kuznetsov, A. A. - 633, 931  
Kuznetsov, A. N. - 89, 295, 547  
Kuznetsov, V. A. - 74  
Kuznetsov, V. G. - 644  
Kvasova, V. A. - 59, 237  
Kvitkovskii, L. N. - 256

## L

Landau, M. V. - 496  
Lapin, V. P. - 469, 873, 970  
Lapshenkov, G. I. - 769

Lapshina, L. N. - 902  
Lashkhi, E. V. - 606, 955  
Lashkhi, V. L. - 135, 202, 302,  
558, 722, 963  
Laskovenko, È. K. - 774  
Lavrova, N. N. - 885  
Lazarenko, V. P. - 221, 356, 897  
Lazarev, A. V. - 947  
Lebedenko, V. M. - 558  
Lebedev, E. V. - 411, 731, 807  
Lebedev, S. R. - 811  
Lebedevskaya, V. G. - 143  
Leont'eva, S. A. - 59, 237, 861  
Leshchenko, R. Kh. - 536  
Levchenko, D. N. - 885  
Levenets, V. P. - 923  
Levento, R. A. - 206  
Levshina, A. M. - 474  
Lezhnev, V. A. - 53, 536  
Likhterov, S. D. - 469, 970  
Lipovich, V. G. - 436  
Lipshtein, A. R. - 575  
Lisovskaya, M. A. - 722  
Lobanova, G. A. - 687  
Lobskii, M. I. - 820  
Logvinyuk, V. P. - 552  
Loktev, S. M. - 663  
Lomakina, G. P. - 23  
Losev, L. P. - 793  
Lozovoi, Yu. A. - 135  
Luchinskii, V. V. - 493  
Lukashenko, I. M. - 143  
Lukashevich, I. P. - 600  
Luksa, A. - 652  
Lulova, N. I. - 59, 99, 237, 575,  
738, 861  
Lur'e, M. A. - 436  
Lushnikova, T. D. - 873  
Lutsenko, N. A. - 428

## M

Magaril, R. Z. - 420  
Maikov, V. P. - 45  
Maiorov, D. M. - 65  
Makar'ev, S. V. - 53, 536  
Makarov, A. A. - 360  
Makeikina, V. V. - 185  
Makhinya, I. D. - 97  
Makhonin, G. M. - 850, 942  
Makhov, A. F. - 198, 657  
Makhrov, Yu. V. - 104  
Makkaveev, M. V. - 955  
Maksimenko, M. Z. - 198  
Malyshev, V. V. - 552, 597

Malysheva, T. G. - 722  
Mamaev, O. A. - 253  
Mamed'yarov, M. A. - 858  
Mamontova, O. V. - 185  
Manoil, A. M. - 895  
Manoyyan, A. K. - 193, 542  
Manshilin, V. V. - 125  
Manusadzhants, O. I. - 345  
Mardanov, M. A. - 211  
Markhevka, V. I. - 295, 547  
Markov, A. A. - 135, 302, 722  
Martynenko, A. G. - 269, 536, 793,  
931  
Mashireva, L. G. - 68, 319  
Maslyanskii, G. N. - 81  
Matiichenko, A. P. - 290  
Matishev, V. A. - 97, 282  
Mateev, V. K. - 603  
Mazitova, F. N. - 278  
Melik-Akhnazarov, T. Kh. - 89,  
295, 547  
Mel'nikov, I. F. - 694  
Men'shikov, V. A. - 789  
Mikhailov, I. A. - 99, 148  
Mikheev, V. A. - 309  
Mikheichev, P. A. - 404  
Mikulin, Yu. V. - 988  
Miller, R. B. - 450  
Minaev, V. Z. - 436  
Minin, E. G. - 388  
Mirgashimova, L. M. - 211  
Miroshnichenko, M. I. - 86  
Mizanova, E. P. - 633  
Mkhchian, M. A. - 250  
Mokhnatkin, È. M. - 400  
Mol'nikova, E. V. - 569  
Monastyrskii, V. N. - 131  
Morgunov, A. N. - 274  
Moskovskii, S. M. - 450  
Mossé, A. L. - 521  
Motus, L. N. - 40  
Mukhina, T. N. - 789  
Muzikus, S. M. - 815

## N

Nabiev, N. I. - 683  
Narushevich, N. V. - 114  
Naumova, T. A. - 600  
Nazarov, V. I. - 14  
Nazarov, V. I. - 55, 188, 804  
Nechaev, B. N. - 757  
Nechitailo, N. A. - 135  
Nemets, L. L. - 125  
Nemzer, V. G. - 649  
Nepogod'ev, A. V. - 218

Nesmeyanov, A. N. - 211  
Nikitin, E. E. - 973  
Nikitin, V. V. - 335  
Nikitina, N. I. - 122, 714  
Nikolaeva, N. V. - 691  
Nikonorov, E. M. - 586, 594  
Nikonov, L. V. - 717  
Novikov, G. A. - 521  
Novikova, Z. U. - 639  
Novoded, R. D. - 626  
Novosartov, G. T. - 28, 644

## O

Obmochaev, A. I. - 538  
Odintsov, O. K. - 193, 542  
Omarov, S. Yu. - 554  
Orlova, A. V. - 400  
Osipov, L. N. - 352, 861  
Osipov, V. M. - 493  
Ostrovskii, N. B. - 345  
Ovchinnikov, G. A. - 572

## P

Palitsyn, N. P. - 211  
Panchenkov, G. M. - 264  
Papok, K. K. - 335, 398, 833  
Paramonov, R. M. - 481  
Pashuk, V. V. - 985  
Patrilyak, K. I. - 14  
Pavlenko, N. A. - 966  
Pavlov, L. V. - 72  
Pavlovich, S. V. - 440  
Pavlyukhin, V. N. - 583  
Perchenko, A. A. - 274  
Perekrestova, V. V. - 554, 799  
Pereverzey, A. N. - 428  
Perezhigina, I. Ya. - 352  
Petlyuk, F. B. - 609  
Petrov, A. A. - 850, 942  
Petrova, L. N. - 306  
Pikalov, G. P. - 40  
Pilaeva, V. P. - 642  
Pilipenko, N. N. - 72  
Pirkis, L. N. - 697  
Piskunova, L. P. - 408  
Pivovarova, T. E. - 807  
Plyusnin, A. N. - 637  
Podgoretskaya, N. M. - 188  
Polikarpov, V. A. - 440  
Polotskii, A. M. - 446, 869  
Pol'shinskii, V. V. - 525  
Pol'skaya, N. I. - 420  
Polyakova, A. A. - 228  
Popov, A. A. - 552

Popov, N. L. - 517  
Popova, E. A. - 393  
Popova, É. L. - 955  
Postnov, V. V. - 99  
Potapova, N. A. - 166  
Provkin, R. G. - 938  
Pryanikov, E. I. - 762  
Pushkina, R. A. - 443  
Puzevich, G. V. - 865

## R

Rabinovich, G. G. - 330  
Rabinovich, S. I. - 889  
Radchenko, E. D. - 335, 352, 619, 747  
Radchenko, L. A. - 963  
Ramaiya, K. S. - 458  
Rappeport, L. G. - 233  
Raspopin, V. E. - 420  
Rastorguev, Yu. L. - 649  
Ratmanskaya, A. I. - 393  
Razumov, I. M. - 125  
Razumov, N. V. - 841  
Red'kina, G. N. - 521  
Remizov, V. G. - 889  
Reznikov, V. D. - 225, 378, 796  
Rezvina, S. A. - 178  
Rizaeva, M. K. - 839  
Rogachevskaya, T. A. - 722  
Rogov, S. P. - 600, 861  
Rogozhina, T. E. - 586  
Romakhovich, P. P. - 440  
Romanko, P. D. - 529  
Romanov, A. N. - 368  
Romankova, I. K. - 635  
Rozhdestvenskaya, A. A. - 694  
Rozhkov, I. V. - 356, 619  
Rozhnov, A. M. - 947  
Rubinshtein, I. A. - 178, 393, 644  
Rubtsova, Z. S. - 309  
Rudyk, E. M. - 583  
Rustamov, M. I. - 762  
Ryabchikov, S. Ya. - 118  
Ryazanov, L. S. - 218  
Rysakov, M. V. - 591

## S

Sabadash, Yu. S. - 938  
Sabirova, G. V. - 923  
Sablina, Z. A. - 221, 356, 897  
Sadykov, A. N. - 869  
Sadykhov, Z. A. - 928  
Safin, Yu. A. - 481  
Safonova, V. F. - 844

Safranova, M. D. - 985  
Sagidova, F. Z. - 159, 839  
Saifutdinov, K. Z. - 110  
Salimzhanova, Zh. A. - 74  
Salmanova, E. I. - 282  
Samakov, A. A. - 436  
Samoilov, S. M. - 131  
Sapochnikova, E. A. - 110  
Sarantidi, P. G. - 360  
Sardanashvili, A. G. - 171, 572, 588  
Sarnavskaya, T. I. - 411, 731, 807  
Sashevskii, V. V. - 128, 352, 619  
Savitskaya, I. V. - 542  
Sentyurikhina, L. N. - 306, 309  
Seregin, E. P. - 360, 368, 619, 833  
Sevast'yanova, G. V. - 529  
Shablii, V. I. - 731  
Shadrin, L. G. - 454  
Shainurov, N. Sh. - 198  
Shainyan, D. M. - 53  
Shakhoyan, L. S. - 754  
Shapiro, R. N. - 81  
Shapovalova, L. A. - 315  
Sharapov, V. I. - 644  
Shargovskaya, R. F. - 218  
Sharonov, K. G. - 947  
Shavandin, Yu. A. - 162, 259  
Shavolina, N. V. - 777  
Scherbina, E. I. - 432, 603  
Shekhter, Yu. N. - 213, 374, 462, 554, 734  
Shelomentsev, A. M. - 818, 892  
Shepeleva, E. S. - 135  
Shevchenko, E. F. - 93  
Shevtsova, N. N. - 256  
Shifman, V. S. - 237  
Shilina, V. K. - 282  
Shilyaev, V. A. - 162  
Shimonaev, G. S. - 727, 976  
Shipikin, V. V. - 81, 440  
Shipulina, É. N. - 378  
Shirinbekova, F. I. - 315  
Shirokova, G. B. - 221, 897  
Shirokova, Z. I. - 889  
Shishigin, A. A. - 458  
Shklovskii, Ya. A. - 477  
Shkol'nikov, V. M. - 213, 469, 796  
Shloissner, R. - 45  
Shmelev, A. S. - 14  
Shmelev, R. A. - 450  
Shmulyakovskii, Ya. É. - 65  
Shnyrev, G. D. - 143

Shor, G. I. - 469, 873, 970  
Sidorenko, A. P. - 415  
Sidorova, N. N. - 213  
Silkin, E. A. - 446, 865  
Simeonov, A. A. - 443  
Siryuk, A. G. - 143, 148, 228  
Skoblo, A. I. - 40  
Skvorodin, G. B. - 356, 360, 619  
Skundina, L. Ya. - 9  
Slepneva, A. T. - 485  
Slitikova, V. M. - 128, 352  
Smagina, L. N. - 86  
Smidovich, E. V. - 424, 588  
Smiotanko, É. A. - 554  
Smirnov, A. P. - 583  
Smirnova, N. S. - 206  
Smolina, T. A. - 697  
Smol'skii, A. M. - 646  
Smol'yaninov, S. I. - 691  
Smol'yaninova, N. M. - 691  
Sokol'nikova, M. D. - 159, 839  
Sokolov, V. V. - 364  
Sokolova, V. I. - 9, 477  
Solov'ev, V. G. - 298  
Solov'yanova, V. A. - 450  
Sopkina, A. K. - 980  
Sorkin, Ya. G. - 286, 913  
Soroka, A. S. - 780  
Sorokina, S. B. - 68  
Soskind, D. M. - 538  
Sosulina, L. N. - 424  
Spirina, G. A. - 436  
Starodubskaya, G. Ya. - 639  
Stekhun, A. I. - 31, 657  
Stepanova, L. S. - 727, 976  
Stepanova, V. A. - 53, 536  
Stepochkin, B. F. - 959  
Stryuk, N. V. - 881  
Suchkov, B. A. - 193, 542  
Sudarikova, T. I. - 594  
Sultanov, N. T. - 315  
Susanina, O. G. - 963  
Syunyaev, Z. I. - 33

## T

Taran, A. L. - 769  
Taran, A. V. - 769  
Tarasov, D. K. - 428  
Taushev, V. V. - 181  
Telkov, Yu. K. - 609  
Tenenbaum, A. É. - 432, 603  
Terebii, N. M. - 895

Terent'ev, G. A. - 114  
Terman, E. D. - 824  
Terteryan, S. A. - 642, 920  
Teterina, L. N. - 213, 734  
Titkina, G. I. - 250  
Titov, V. I. - 637  
Titurenko, S. G. - 383  
Tkachenko, V. V. - 335  
Torbeeva, L. R. - 934  
Trofimov, G. A. - 408  
Trofimov, V. A. - 202, 558  
Trofimova, G. L. - 873  
Trofimova, V. P. - 635  
Troitskii, N. F. - 352, 619  
Tsvetkov, O. N. - 131  
Tsybulevskii, A. M. - 20  
Tsyskovskii, V. K. - 670  
Tukov, G. V. - 869  
Turgel', E. O. - 65  
Turkii, Yu. I. - 55  
Tyutynnikov, M. Yu. - 892

## U

Uchastkin, V. P. - 110  
Umarova, K. A. - 159, 839  
Umutbaev, V. N. - 110  
Ushatinskaya, N. P. - 538  
Usmanov, R. M. - 33

## V

Vainshtok, V. V. - 206  
Vakhmyanina, M. M. - 404  
Valibekov, Yu. V. - 521  
Valitov, N. Kh. - 418, 765  
Vaseiko, A. I. - 298  
Vasil'eva, I. I. - 264  
Veliev, K. G. - 211  
Velieva, Ya. A. - 858  
Veretennikova, I. V. - 850  
Verkhotina, L. V. - 706  
Vilenkin, A. V. - 374  
Vilenkin, V. A. - 988  
Vinogradova, I. É. - 878  
Vipper, A. B. - 135, 202, 302, 335, 388, 558, 722, 963  
Vishnyakova, T. P. - 597  
Vol'-Épshtein, A. B. - 166  
Volgin, V. D. - 454  
Volkov, I. A. - 259  
Volkova, L. I. - 9  
Volkova, T. A. - 97  
Volnukhina, N. K. - 259  
Voloshin, N. D. - 33  
Voronov, I. P. - 372

Voznesenskaya, E. V. - 694  
Vyskrebentsev, V. P. - 72  
V'yulkova, G. S. - 985

## Y

Yakovishina, M. M. - 388  
Yakubo, D. P. - 973  
Yakushev, G. Kh. - 198  
Yankova, S. T. - 818  
Yaralov, N. G. - 931  
Yarochkin, V. N. - 477  
Yaroslavkina, T. D. - 536  
Yatsiv, D. M. - 820  
Yumusov, Z. T. - 887  
Yurchenko, N. P. - 466  
Yutkevich, R. M. - 233  
Yuzefovich, V. I. - 679

## Z

Zaidman, N. M. - 436  
Zaitova, A. Ya. - 9  
Zakharchenko, V. V. - 311  
Zakiev, A. Z. - 446  
Zakupra, V. A. - 322, 980  
Zarubin, A. A. - 398  
Zarubin, A. P. - 398  
Zarubina, I. V. - 586  
Zaslavskii, R. N. - 383  
Zaslavskii, Yu. S. - 383  
Zaskal'ko, P. P. - 569  
Zaslavskaya, I. R. - 734  
Zav lavskii, Yu. S. - 408  
Zalenetskaya, I. S. - 564  
Zelenin, N. I. - 973  
Zelenskaya, R. G. - 225  
Zelentsov, Yu. N. - 269  
Zeninskii, A. M. - 36, 710  
Zharova, E. Ya. - 594  
Zhavoronkov, M. N. - 253  
Zhemchugova, E. I. - 162, 259  
Zhhestkov, D. K. - 237  
Zhilkin, V. V. - 319  
Zhmykhova, N. M. - 415  
Zhorov, Yu. M. - 264  
Zhuravlev, V. S. - 311  
Zhurba, A. D. - 923  
Zimina, K. I. - 148, 228, 319, 443  
Zlotnikov, V. Z. - 777  
Zlotnikova, L. G. - 606, 955  
Zolotarev, P. A. - 701  
Zyabrova, L. V. - 784

-1-  
-2-  
-3-  
-4-

## TABLES OF CONTENTS

### CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS

### Volume 11, Numbers 1-12, 1975

(A translation of Khimiya i Tekhnologiya Topliv i Maseri)

VOLUME 11, NUMBER 1, JANUARY, 1975

	Engl./Russ.
The Petroleum-Refining and Petrochemical Industry in 1975 .....	3 1
<b>PETROLEUM AND GAS PROCESSING</b>	
Development of Hydrodesulfurization Catalysts for Residual Petroleum Feedstocks	
— A. Ya. Zaitova, G. A. Berg, L. I. Volkova, T. P. Andryushenko,	
N. A. Kochetova, V. I. Sokolova, and L. Ya. Skundina .....	9 7
Mathematical Modeling of Fixed-Bed Oxidative Regeneration of Zeolite	
— V. I. Nazarov, O. I. Gaponenko, A. S. Shmelev, K. I. Patrilyak,	
and P. N. Galich .....	14 11
Selective Hydrocracking for Denormalization of Platformer Raffinates	
— N. A. Gorechenkova and A. M. Tsybulevskii .....	20 16
Catalytic Reforming of Light Distillate from Fuel-Hydrotreating Unit — E. M. Brants,	
N. A. Donchenko, and G. P. Lomakina .....	23 18
Degree of Esterification of Pentaerythritol Esters of Carboxylic Acids in Relation	
to Thermal-Oxidative Stability — L. L. Kalinin, G. T. Novosartov,	
V. K. Krashenninikova, and I. A. Kuz'michenkova .....	28 22
Distribution and Composition of Sulfur and Nitrogen Compounds in Coker Products	
— A. I. Stekhun .....	31 25
Use of Petroleum Coke Breeze as Raw Material in Production of Anode Paste	
— A. N. Emel'yanov, Z. I. Syunyaev, L. V. Dolmatov, N. D. Voloshin,	
R. M. Usmanov, and R. B. Izmailov .....	33 26
<b>ECONOMICS</b>	
Procedure for Determining Labor-Productivity Growth Factors in Refineries	
— A. M. Zeninskii .....	36 29
<b>PETROLEUM REFINING EQUIPMENT</b>	
Operation of Naphtha Redistillation Block in AT-6 and AVT-6 Combination Units	
— A. I. Skoblo, N. N. Bushueva, L. N. Motus, and G. P. Pikalov .....	40 32
Decomposition Method of Calculating Complex Distillation Towers with Side Sections	
in Close Fractionation — V. P. Maikov and R. Shloissner .....	45 36
New Rational Solutions for Layout of Structures, Vessels, and Equipment in Modern	
Combination Process Units — S. V. Makar'ev, V. A. Lezhnev, T. F. Kruglova,	
D. M. Shainyan, V. A. Stepanova, and V. G. Istomin .....	53 43
<b>CHEMMOTOGY OF FUELS AND LUBRICANTS</b>	
Efficiency of Phenolic and Amine-Type Antioxidants in Hydrocarbon Oil	
— A. K. Klimov, Yu. I. Turskii, V. I. Nazarova, and A. I. Dintses .....	55 45
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>	
Individual Composition of Hydrocarbons in Naphthas from Secondary Processes	
— N. I. Lulova, S. A. Leont'eva, A. K. Fedosova, and V. A. Kvasova .....	59 48

Determination of Contents of Mono-, Bi-, and Polycyclic Aromatic Hydrocarbons in Middle-Distillate Petroleum Cuts — E. O. Turgel', N. V. Block, D. M. Maiorov, and Ya. È. Shmulyakovskii . . . . .	65	52
Methods of Accounting for Viscosity of Petroleum Products in Flame-Photometric Analyses — L. G. Mashireva, S. B. Sorokina, and V. A. Korovin . . . . .	68	55
Chromatographic Determination of Solvent Composition in Deoiling and Dewaxing Processes — V. P. Vyskrebentsev, V. A. Dyadyunov, L. V. Pavlov, N. N. Pilipenko, Yu. I. Arutyunov, and A. P. Grishin. . . . .	72	58
<b>INFORMATION</b>		
Role of the People's Universities in Increasing Production Efficiency — V. A. Kuznetsov and Zh. A. Salimzhanova . . . . .	74	60
"Hydrocarbon Processing" — A New Translated Journal (USA) . . . . .	77	62

**VOLUME 11, NUMBER 2, FEBRUARY, 1975**

**PETROLEUM AND GAS PROCESSING**

Production of Benzene and Toluene in Commercial Catalytic Reforming Units — G. M. Avdei, R. N. Shapiro, G. N. Maslyanskii, V. V. Shipikin, and Z. M. Kurkovskii . . . . .	81	1
Influence of Aromatic Hydrocarbons on Oxidation of Liquid Paraffin to Secondary Alcohols — A. I. Il'ina, L. N. Smagina, and M. I. Miroshnichenko . . . . .	86	5
Oxidative Regeneration of Zeolitic Cracking Catalyst at High Temperature with High Velocities of Fluidizing Agent — A. N. Kuznetsov, V. A. Basov, T. Kh. Melik-Akhnazarov, and V. K. Gusev . . . . .	89	8
Individual Composition of n-Alkanes in Crude Oils and Condensates from Gas, Oil/Gas, and Oil Deposits of the Ukraine — E. F. Shevchenko and È. V. Boyarskaya . . . . .	93	10
Upper Limit of Urea Complex Formation with n-Heptane in the Presence of n-1-Heptene — T. A. Volkova, I. D. Makhinya, A. I. Bogatova, and V. A. Matishev . . . . .	97	14
Individual Hydrocarbon Composition of Liquid Paraffins — I. A. Mikhailov, N. I. Lulova, and V. V. Postnov . . . . .	99	15
Production of Petroleum Asphalts in Column-Type Equipment — A. F. Kekukh, N. N. Belyi, Yu. V. Makhrov, and I. E. Bogdanov . . . . .	104	20
Properties of Asphaltenes and Asphalts from Various Sources — E. P. Glozman and R. S. Akhmetova . . . . .	107	22
Treatment of Circulating Water in Petroleum Refineries — K. Z. Saifutdinov, È. G. Ioakimis, A. K. Efimova, V. N. Umutbaev, E. A. Sapozhnikova, and V. P. Uchastkin . . . . .	110	24

**ECONOMICS**

Procedure for Calculating Specific Capital Investment per Ton of Refinery Production, Including Cost of Off-Site Facilities — V. I. Gubernskii, G. A. Terent'ev, and N. V. Narushevich . . . . .	114	28
--	-----	----

**PETROLEUM REFINING EQUIPMENT**

Investigation of Dust Collection Systems in Fluid-Bed Vessels — S. Ya. Ryabchikov, B. K. Amerik, D. T. Karpukhovich, and L. N. Gusev . . . . .	118	32
Determination of Temperature and Concentration Field in Reaction for Steam Conversion of Methane under Pressure, with Nonuniform Radiation to Furnace Tubes — N. I. Nikitina, G. G. Ksandopulo, L. G. Baryshnikova and M. È. Aérov . . . . .	122	35
Volumetric Contents of Liquid and Solid Phases in Three-Phase Fluidized Bed in Relation to Viscosity of Liquid Medium — L. Nemets, I. M. Razumov, and V. V. Manshilin . . .	125	37

**CHEMISTRY OF FUELS AND LUBRICANTS**

Laboratory Evaluation of Highly Refined T-8 Jet Fuel with Respect to Stability and Antioxidant — B. A. Ènglin, V. M. Slitikova, R. R. Aliiev, and V. V. Sashevskii . . .	128	40
---	-----	----

Heteroorganic Copolymers of Ethylene as New Additives for Lubricating Oils — S. M. Samoilov, O. N. Tsvetkov, F. N. Ermolov, A. K. Klimov, V. I. Ivanov, and V. N. Monastyrskii	131	43
Antiwear Effect of Organophosphorus and Organochlorophosphorus Compounds in Lubricating Oils — V. L. Lashkhi, A. B. Vipper, A. A. Markov, E. S. Shepeleva, Yu. A. Lozovoi, F. N. Ermolov, and N. A. Nechitailo	135	47
Aspects of Corrosive Wear in Lubricating Media — B. Dimitrov	139	50
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Investigation of Crystals Recovered from High-Boiling-Point Petroleum Fractions — E. S. Brodskii, Sh. Sh. Barabade, A. G. Siryuk, I. M. Lukashenko, V. G. Lebedevskaya, and G. D. Shnyrev	143	53
Determination of Small Quantities of Aromatic Hydrocarbons in Highly Refined Waxes and Oils on the Basis of UV Absorption Spectra — A. G. Siryuk, M. M. Fernandez-Gomez, K. I. Zimina, and I. A. Mikhailov	148	58
<b>INFORMATION</b>		
Design of Experiments in Investigating Petroleum Refining and Petrochemical Process — G. I. Kaz'min and A. P. Dorokhov	153	62
<b>OBITUARY</b>		
Oleg Aleksandrovich Ktatorov (1919-1974)	155	63

**VOLUME 11, NUMBER 3, MARCH, 1975**

**PETROLEUM AND GAS PROCESSING**

Crudes Oils from Horizon XVIII of the Yuzhnyi Alamyshik Field — M. D. Sokol'nikova, F. Z. Sagidova, and K. A. Umarova	159	1
Production of Xylenes by Transalkylation of Toluene with Trimethylbenzenes — N. R. Bursian, Yu. A. Shavandin, Z. A. Davydova, V. A. Shilyaev, and E. I. Zhemchugova	162	3
Influence of Certain Parameters on Oxidative Pyrolysis of Crude Oil — Yu. A. Belyaev, N. A. Potapova, and A. B. Vol'-Épshtein	166	6
Selection of Feedstock Space Velocity for Adsorber — A. G. Sardanashvili	171	9
Macrokinetics and Procedures for Treatment of Experimental Data in Simulating Certain High-Temperature Chemical Processes — I. M. Artyukhov	173	11
Content of Mercaptan Sulfur in Petroleum Oils — S. É. Krein, I. A. Rubinsteine, E. S. Churshukov, N. Ya. Dedova, L. S. Enikeeva, and S. A. Rezvina	178	15
Acceleration of Production Process for Petroleum Pitch — V. V. Taushev and R. N. Gimaev	181	17
Treatment of Wastewater Formed in Production of Synthetic Lubricating Oil, Grade LNMZ-36/1 — V. V. Makeikina and O. V. Mamontova	185	20
Use of Ozone in Treating Refinery Wastes — É. G. Ioakimis, A. E. Kulikov, V. I. Nazarov, N. M. Podgoretskaya, and S. O. Éigenson	188	22

**PETROLEUM REFINING EQUIPMENT**

Influence of Liquid Recycle on Distillation Process in Complex Column — A. K. Manoyan, B. A. Suchkov, O. K. Odintsov, and A. A. Andryushina	193	26
Investigation of Unpressurized Vertical-Type Centrifugal Extractor Operating On Oil/Phenol System — N. A. Evtyukhin, M. Z. Maksimenko, Yu. A. Dulatov, N. Sh. Shainurov, A. F. Makhov, I. L. Kushnir, and G. Kh. Yakushev	198	30

## CHEMMATOLOGY OF FUELS AND LUBRICANTS

Antiwear Properties of Symmetrically Substituted Sulfides and Sulfoxides — V. A. Trofimov, V. L. Lashkhi, F. N. Ermolov, A. N. Ermolaeva, and A. B. Vipper . . . . .	202	33
Antiwear and Extreme-Pressure Properties of Lithium Greases — V. V. Vainshtok, N. S. Smirnova, R. A. Levento, M. S. Gusarova, L. B. Gel'chinskaya, and T. S. Chernyak . . . . .	206	36
Smoke-Suppressant Additives for Diesel Fuel — A. N. Nesmeyanov, M. A. Mardanov, K. G. Veliev, N. S. Kochetkova, L. M. Mirgashimova, N. P. Palitsyn, and G. Khanlarov . . . . .	211	40
Influence of Oil Polarity on Efficiency of Corrosion Inhibitors — G. I. Fuks, N. N. Sidorova, V. M. Shkol'nikov, Yu. N. Shekhter, L. N. Teterina, and K. M. Antipova . . . . .	213	41
Simulation of Conditions for Oxidation of Oil in Diesel Engines — A. V. Nepogod'ev, L. S. Ryazanov, and R. F. Shargovskaya . . . . .	218	45
Current Foreign Standards on Jet Fuels — Z. A. Sablina, G. B. Shirokova, V. P. Lazarenko, V. N. Gusevskii, and T. I. Ermakova . . . . .	221	48
New Developments in the Classification and Test Methods for Motor Oils outside the USSR — V. D. Reznikov and R. G. Zelenskaya . . . . .	225	51
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Composition of High-Molecular-Weight Aromatic Hydrocarbons of Petroleum — K. I. Zimina, A. A. Polyakova, and A. G. Siryuk . . . . .	228	53
Determination of Small Quantities of Vanadium in Heavy Fuels by Pyrocatechol Method — L. G. Rappeport and R. M. Yutkevich . . . . .	233	57
Preparative Chromatography with Cutoff and Post-Purification of Material — G. D. Gal'pern, V. S. Shifman, D. K. Zhestkov, G. N. Gordadze, S. A. Leont'eva, N. I. Lulova, A. A. Grinberg, N. F. Kondakova, and V. A. Kvasova . . . . .	237	59
<b>OBITUARY</b>		
Konstantin Vasil'evich Kostrin (1901-1974) . . . . .	240	62

VOLUME 11, NUMBER 4, APRIL, 1975

Petroleum Refining and Petrochemical Workers on a Labor Watch on the Occasion of the Concluding Year of the Ninth Five-Year Plan — V. G. Khor'kov . . . . .	243	1
Thematic Plan of Journal "Chemistry and Technology of Fuels and Oils" . . . . .	247	5
<b>PETROLEUM AND GAS PROCESSING</b>		
Crude Oils of the Komi ASSR — Z. V. Driatskaya, M. A. Mkhchiyan, and G. I. Titkina . . . . .	250	7
Catalytic Cracking of 255-330°C Cut from Ozek-Suat Crude on Zeolitic and Amorphous Aluminosilicate Catalysts at Elevated Temperatures — T. M. Gairbekov, M. N. Zhavoronkov, A. Z. Dorogochinskii, and O. A. Mamaev . . . . .	253	9
Disproportionation of Toluene on ASHNTs-3 Zeolitic Catalyst — N. N. Shevtsova and L. N. Kvirkovskii . . . . .	256	11
Production of Blending Component for AI-93 Gasoline by Isomerization of Hexane and Pentane/Hexane Cuts — N. R. Bursian, N. K. Volnukhina, I. A. Volkov, Yu. A. Shavandin, and E. I. Zhemchugova . . . . .	259	14
Mathematical Description of Naphtha Pyrolysis Process — Yu. M. Zhorov, I. I. Vasil'eva, G. M. Panchenkov, and S. T. Kuz'min . . . . .	264	16
Hydrogenation Treatment of Liquid Paraffins — A. G. Martynenko, A. D. Goncharenko, and Yu. N. Zelentsov . . . . .	269	19
Reaction Kinetics for the Saponification of Oxidized Paraffin with Aqueous Caustic Soda — A. A. Perchenko and A. N. Morgunov . . . . .	274	23

Sulfones from Sulfur Compounds in Middle Distillates from Romashkino Crude — F. N. Mazitova, N. A. Iglamova, and R. P. Kondrat'eva . . . . .	278	26
Upper Limit of Urea Adduct Formation with Ethyl Esters of C <sub>8</sub> -C <sub>12</sub> Normal Monocarboxylic Acids — E. I. Salmanova, V. K. Shilina, and V. A. Matishev . . . . .	282	29
<b>ECONOMICS</b>		
The Petroleum Refining Industry and Environmental Pollution — Ya. G. Sorkin . . . . .	286	32
Economic Effectiveness of Increase in Quality of Crude Oil Pretreatment — A. P. Matiichenko .	290	35
<b>PETROLEUM REFINING EQUIPMENT</b>		
Composition of Stack Gases from Regeneration of Cracking Catalysts — A. N. Kuznetsov, V. A. Basov, T. Kh. Melik-Akhnazarov, V. I. Markhevka, and V. K. Gusev . . . . .	295	38
Character of Flow in Rising Gas-Liquid Stream in Fixed Bed of Granular Material — V. G. Solov'ev, V. M. Kurganov, A. I. Vaseiko, and A. V. Agafonov . . . . .	298	40
<b>CHEMMOTOLGY OF FUELS AND LUBRICANTS</b>		
Solubilizing Capacity of Succinimides and Their Mixtures with Metal-Containing Antioxidant and Detergent Additives — A. B. Vipper, V. N. Bauman, V. L. Lashkhi, and A. A. Markov . . . . .	302	43
Physicomechanical Properties and Selection of Optimal Composition of Solid-Film Lubricants — L. N. Petrova and L. N. Sentyurikhina . . . . .	306	46
Service Properties of Solid-Film Lubricants — Z. S. Rubtsova, L. N. Sentyurikhina, and V. A. Mikheev . . . . .	309	48
Electrostatic Discharges from the Surface of Hydrocarbon Fuels — V. V. Zakharchenko and V. S. Zhuravlev . . . . .	311	50
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
New Synthetic Solid Supports in Gas-Liquid Chromatography — S. I. Fisher, M. I. Aliev, T. G. Alkhazov, B. V. Bagdasaryan, N. T. Sultanov, F. I. Shirinbekova, and L. A. Shapovalova . . . . .	315	53
Experience in Use of Atomic Absorption Method for Analysis of Petroleum Products — L. G. Mashireva, A. G. Gonsales, K. I. Zimina, and V. V. Zhilkin . . . . .	319	55
Liquid Microchromatographic Separation of Octylphenol Fractions on Aluminum Oxide with Various Degrees of Activity — V. A. Zakupra and T. I. Chernetskaya . . . . .	322	57
<b>INFORMATION</b>		
Automation of Crude Oil Pretreatment for Processing in Electrodesalting Units . . . . .	328	62
Methods of Calculating Thermophysical Properties — G. G. Rabinovich . . . . .	330	63
Conference on Lubricating Greases . . . . .	331	63

**VOLUME 11, NUMBER 5, MAY, 1975**

The Role of Chemmotology in the National Economy — K. K. Papok, V. V. Nikitin, V. V. Tkachenko, G. F. Ivanovskii, E. D. Radchenko, A. B. Vipper, B. A. Énglin, and B. N. Baranov . . . . .	335	2
Chemmotology and Civil Aviation — A. F. Aksenov . . . . .	341	7
Chemmotology Research Center in Motor Transport — N. B. Ostrovskii and O. I. Manusadzhants . . . . .	345	10
<b>CHEMMOTOLGY OF FUELS</b>		
Problems in Chemmotology of Automotive Gasolines — A. A. Gureev and V. S. Azev . . . . .	347	12
Service Properties of Jet Fuels Obtained by Hydrocracking Vacuum Gas Oil — B. A. Énglin, E. D. Radchenko, A. V. Agafonov, I. Ya. Perezhigina, V. V. Sashevskii, L. N. Osipov, V. M. Slitikova, R. R. Aliev, and N. F. Troitskii . . . . .	352	16

Influence of Corrosion Inhibitors on Jet Fuel Lubricity — V. P. Lazarenko, G. B. Skovorodin, I. V. Rozhkov, Z. A. Sablina, and E. S. Churshukov . . . . .	356	19
Lubricity of Diesel Fuels — E. P. Seregin, A. A. Gureev, V. T. Bugai, A. A. Makarov, P. G. Sarantidi, and G. B. Skovorodin . . . . .	360	21
Influence of Fuel Filterability on Service Life of Diesel Engine Filters — M. A. Grigor'ev, V. V. Sokolov, V. N. Efremov, P. D. Kasich, and S. A. Bardov . . . . .	364	24
Change in Properties of Hydrogenated Fuels during Prolonged Storage — E. P. Seregin, B. A. Énglin, M. P. Alekseeva, G. V. Kachurina, V. A. Gladkikh, A. N. Romanov, and A. L. Ivanov . . . . .	368	27
<b>CHEMMOTOTOLOGY OF LUBRICANTS</b>		
Basic Problems of Fuel Chemmottology Involved in Operation of Medium-Speed Four-Cycle Diesel Engines Using Type DT Engine Fuel — P. I. Davydov and I. P. Voronov . . . . .	372	31
Certain Corrosion Problems in Chemmottology — Yu. N. Shekhter, A. V. Vilenkin, and S. É. Krein . . . . .	374	32
Improvement of M-20-BP Lube Oil Service Properties and Production of Similar Oil from West Siberian Base Stocks — É. N. Shipulina, M. S. Borovaya, A. I. Grigor'ev, and V. D. Reznikov . . . . .	378	35
Use of Tribopolymer-Forming Additives in the Development of Industrial Lube Formulations — R. N. Zaslavskii, Yu. S. Zaslavskii, S. G. Titurenko, B. K. Averin, M. I. Cherkashin, K. E. Belozerova, and A. M. Danilov . . . . .	383	39
Study of Mutual Influence of Additives on Service Properties of Motor Oil — S. G. Arabyan, A. B. Vipper, E. G. Minin, and M. M. Yakovishina . . . . .	388	43
Evaluation of Moisture Resistance of Mineral Oils with Ash-Containing Additives — E. A. Popova, A. I. Ratmanskaya, and I. A. Rubinshtein . . . . .	393	46
Universal Method for Rating Detergency of Motor Oils in PZV Unit (PZV-1000 Method) — K. K. Papok, A. P. Zarubin, and A. A. Zarubin . . . . .	398	50
Engine Method for Lube Oil Qualification Testing — É. M. Mokhnatkin, M. G. Ionis, A. V. Orlova, and N. F. Emel'yanov . . . . .	400	52
Use of Thin-Layer Chromatography in Determining Depletion of Additives Used in Petroleum-Base Aviation Oils — K. S. Chernova, P. A. Mikheichev, and M. M. Vakhmyanina . . . . .	404	56
Use of Differential Scanning Calorimetry in Studying Antioxidant Efficiency of Lubricating Oil Additives — G. A. Trofimov, L. P. Piskunova, and Yu. S. Zaslavskii . . . . .	408	59
New Methods for Rating Stability of Synthetic Oils against Thermal-Oxidative Breakdown — T. I. Sarnavskaya and E. V. Lebedev . . . . .	411	61

**VOLUME 11, NUMBER 6, JUNE, 1975**

**PETROLEUM AND GAS PROCESSING**

Crude Oil from the Beshtentyak Field (Tadzhik SSR) — N. M. Zhmykhova and A. P. Sidorenko . . . . .	415	2
Isomerization of Naphtha Raffinate over Commercial IP-62 Catalyst — N. Kh. Valitov, A. Ya. Kolbasin, Z. G. Belyaeva, and R. S. Islamov . . . . .	418	4
Influence of Distillation Range and Chemical Composition of Feedstock on the Yields of Pyrolysis Products — R. Z. Magaril, N. I. Pol'skaya, L. V. Kolesnikova, N. V. Korzun, V. E. Raspopin, and Z. G. Chuprova . . . . .	420	5
Effect of Asphaltenes in Hydraulic Tars on Coker Product Yields and Coke Structure — O. F. Glagoleva, L. N. Sosulina, and E. V. Smidovich . . . . .	424	8
Treatment of Paraffin Waxes by Selective Solvent Extraction — D. K. Tarasov, A. N. Pereverzev,		

G. S. Kaganer, and N. A. Lutsenko . . . . .	428	11
Solvency and Selectivity of Ethylene Glycol Monoethers — E. I. Shcherbina, A. É. Tenenbaum, and O. P. Dmitrieva . . . . .	432	14
Effect of Pore Structure of Alumina—Cobalt—Molybdenum Catalyst on Activity and Stability in Hydrodesulfurization of Heavy Feedstocks — V. Z. Minaev, N. M. Zaidman, G. A. Spirina, A. A. Samakov, M. A. Lur'e, V. G. Lipovich, and I. V. Kalechits . . . . .	436	16
Influence of Nitrogen Compounds on Properties of Platinized Alumina Catalysts Promoted with Rare Earth Elements — N. S. Kozlov, V. A. Polikarpov, S. V. Pavlovich, V. V. Shipikin, and P. P. Romakhovich . . . . .	440	19
Investigation of Isoparaffinic and Naphthenic Hydrocarbons in 450–470°C Distillate from Korobki Crude Oil — A. Ya. Kuklinskii, R. A. Pushkina, A. A. Simeonov, and K. I. Zimina . . . . .	443	21
<b>ECONOMICS</b>		
Determination of Labor Requirement for Production of Hydrocarbon Feedstock in Central Gas-Fractionating Unit (CGFU) — A. Z. Zakiev, E. A. Silkin, A. M. Polotskii . . . . .	446	24
<b>PETROLEUM REFINING EQUIPMENT</b>		
Indices for Regular Quality Control of TS-1 Fuel in Atmospheric-Vacuum Pipestill Units — S. M. Moskovskii, R. A. Shmelev, R. B. Miller, V. A. Solov'yanova, and L. A. Fritsler . .	450	27
Development of Apparatus for Separation of Liquid Mixtures of Volatile Components in Vaporization through Semipermeable Membranes — V. D. Volgin, L. G. Shadrin, and Kh. Kegel' . . . . .	454	30
<b>CHEMMOTOLGY OF FUELS AND LUBRICANTS</b>		
Corrosivity of Domestic and Foreign Motor Oils — K. S. Ramaiya, A. A. Shishigin, B. M. Bunakov, and E. E. Konstantinova . . . . .	458	33
Corrosion Inhibitors in Lubricating Greases — Yu. P. Kosarskaya, L. G. Fuks, Yu. N. Shekhter, and B. N. Kartinin . . . . .	462	36
Effect of Seawater on Basic Service Properties of MN-7.5 Oil — G. I. Krylova, N. P. Yurchenko, A. A. Emel'yanova, and S. É. Krein . . . . .	466	39
Electroviscous Effects in Lubricating Oils — G. I. Shor, V. P. Lapin, S. D. Likhterov, and V. M. Shkol'nikov . . . . .	469	41
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Derivatographic Study of Copolymers of Isobutylene with $\alpha$ -Methylstyrene and Dicyclopentadiene — T. Kh. Akchurina, A. I. Akhmedov, S. M. Guseinzade, and A. M. Levshina . . . . .	474	45
Simulated Distillation of Petroleum Products Distilling between 50 and 550°C — V. I. Sokolova, G. A. Berg, Ya. A. Shklovskii, E. G. Ivchenko, V. I. Kuz'min, and V. N. Yarochkin . . . . .	477	47
Mass Spectrometric Analysis of Kerosine Fractions — R. M. Paramonov, Yu. A. Safin, A. S. Gaisin, and R. V. Dzhagatspanyan . . . . .	481	50
Rapid Method for Analysis of Solutions Used in Production of Synthetic Zeolites — E. N. Berezovskaya and A. T. Slepneva . . . . .	485	53
Calculation of Molecular Weights of Straight-Run Fractions from Volga, Ural, and West Siberian Crude Oils — A. S. Éigenson and E. G. Ivchenko . . . . .	488	55
Semiautomatic Infrared Laboratory Instruments for Determining Content of Petroleum Products in Wastewater — V. M. Osipov, V. V. Luchinskii, and A. S. Egorov . . . . .	493	59
<b>BOOK REVIEW</b>		
L. I. Piguzova. High-Silica Zeolites and Their Application in Petroleum Refining and Petrochemical Production — Reviewed by A. V. Agafonov, V. Ya. Kruglikov, and M. V. Landau . . . . .	496	61
<b>OBITUARY</b>		
Aleksandr Pavlovich Zarubin (1913–1975) . . . . .	498	62

VOLUME 11, NUMBER 7, JULY, 1975

Introduction of System for Organization of Zero-Defect Labor — P. I. Korotkov . . . . .	501	2
Report on Operations at VNIPKNEFTEKhIM in Fulfilling Plans and Socialist Obligations — G. I. Cherednichenko . . . . .	504	4
<b>PETROLEUM AND GAS PROCESSING</b>		
Influence of Initial Carbon Content of Coked Alumina—Molybdenum Catalyst on Rate of Regeneration by a Steam—Oxygen Mixture — Ya. R. Katsobashvili and G. M. Belova . . . . .	509	9
Macrokinetics of Catalytic Cracking of Kerosine—Gas Oil Cuts over Zeolite-Containing Catalysts — S. R. Kuttykadamov, G. N. Chernyakova, A. V. Agafonov, A. V. Kotova, and K. K. Karataev . . . . .	514	12
Recovery of Aromatic Hydrocarbons from Reformer Products by Extraction with Sulfolane — A. Z. Bikkulov, R. Kh. Khazipov, and N. L. Popov . . . . .	517	15
Composition of Liquid Products from Plasmochemical Pyrolysis of Gas Condensate — Yu. V. Valibekov, B. E. Gutman, I. A. Krylova, A. L. Mossé, G. N. Red'kina, and G. A. Novikov . . . . .	521	18
New Selective Solvents for Lube Oil Treating — V. V. Pol'shinskii and L. M. Kozlov . . . . .	525	20
Nitrogen Compounds in Certain Crude Oils of the Ukrainian SSR — G. V. Sevast'yanova, L. I. Gaeva, G. A. Golovchin, and P. D. Romanko . . . . .	529	22
Improved Technology for Utilizing Spent Sulfuric Acid in Refineries — V. I. Antonishin . . . . .	531	24
<b>ECONOMICS</b>		
Combination Unit for Oil and Wax Production at Drogobych Refinery — S. V. Makar'ev, V. A. Lezhnev, V. A. Stepanova, A. G. Martynenko, R. Kh. Leshchenko, and T. D. Yaroslavkina . . . . .	536	28
<b>PETROLEUM REFINING EQUIPMENT</b>		
System for Automatic Control of Pneumotransport Conditions in Catalytic Cracking Units — D. M. Soskind, M. P. Bezuglov, N. P. Ushatinskaya, A. I. Obmochaev, and E. Ya. Barsukov . . . . .	538	30
Feasibility Study for the Production of Narrow, Closely Fractionated Lube Oil Cuts — A. K. Manoyan, B. A. Suchkov, O. K. Odintsov, and I. V. Savitskaya . . . . .	542	34
Residence Time of Polydisperse Solid Particles in Fluidized Bed — A. N. Kuznetsov, V. A. Bazov, T. Kh. Melik-Akhnazarov, V. I. Markhevka, and A. E. Kheifets . . . . .	547	37
<b>CHEMMOTEOLOGY OF FUELS AND LUBRICANTS</b>		
Influence of Dissolved-Oxygen Concentration on Thermal-Oxidative Stability of Jet Fuels — V. A. Astaf'ev, V. D. Borisov, V. P. Logvinyuk, V. V. Malyshev, and A. A. Popov . . . . .	552	41
Preparation of Lithium Greases by the Use of Internal and External Polarization — I. G. Fuks, M. B. Bakaleinikov, S. Yu. Omarov, É. A. Smiotanko, Yu. N. Shekhter, and V. V. Perekrustova . . . . .	554	42
Antiwear Effectiveness of Amine Salts of Sulfo-Acids in Lubricating Oils — V. M. Lebedenko, V. A. Trofimov, P. S. Belov, F. N. Ermolov, V. L. Lashkhi, and A. B. Vipper . . . . .	558	45
Protective Properties and Water-Displacing Capability of Diesel Fuels — Al. A. Gureev . . . . .	561	47
Results from the Use of M-14VTs Oil in Locomotive Diesels — I. S. Zelenetskaya, O. F. Chekhovskaya, and E. E. Didyk . . . . .	564	49
Influence of Polymer Concentration in Mineral Oil on Mechanical Breakdown of Polymer — P. P. Zaskal'ko and E. V. Mel'nikova . . . . .	569	53
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Laboratory Unit for Determination of Dynamic Capacity of Zeolites — G. I. Fedorov, R. I. Izmailov, A. G. Sardanashvili, and G. A. Ovchinnikov . . . . .	572	56

Chromatographic Method of Analysis and Investigation of Alkylphenols Used in Additive Manufacture — A. R. Lipshtein and N. I. Lulova . . . . .	575	58
<b>BOOK REVIEW</b>		
V. V. Sinitsyn. Selection and Application of Lubricating Greases — Reviewed by Yu. F. Deinega . . . . .	578	61

**VOLUME 11, NUMBER 8, AUGUST, 1975****PETROLEUM AND GAS PROCESSING**

Catalytic Pyrolysis of Kerosine and Gas Oil Cuts — S. V. Adel'son, E. M. Rudyk, A. P. Smirnov, V. I. Gurevich, and V. N. Pavlyukhin . . . . .	583	2
Alkylation of Aromatic Amines over Aluminosilicate Catalysts — I. V. Zarubina, M. S. Borukhova, L. Kh. Kagan, E. M. Nikonorov, and T. E. Rogozhina . . . . .	586	4
Influence of Pyrolysis Process Conditions on Yield and Quality of Products Obtained with Coker Gas Oil as Feedstock — O. F. Glagoleva, E. V. Smidovich, T. M. Bykova, and A. G. Sardanashvili . . . . .	588	6
Activity of Regenerated Catalysts in Hydrotreating Residual Stocks — A. Ya. Botnikov and M. V. Rysakov . . . . .	591	7
Influence of Catalyst on Method of Preparation and Properties of Pentaerythritol Esters — T. M. Itsikson, L. Kh. Kagan, E. Ya. Zharova, T. I. Sudarikova, L. B. Itsikson, E. M. Nikonorov, and K. D. D'yakonova . . . . .	594	10
Kinetics of Oxygen Consumption when T-1 [Jet] Fuel Containing Additives is Heated in TSRT-2 Apparatus — T. P. Vishnyakova, I. A. Golubeva, N. I. Kislitsyna, I. F. Krylov, V. A. Astaf'ev, V. D. Borisov, and V. V. Malyshev . . . . .	597	12
Production of Extender Oil of the MINKh-1 Type from Hydrotreated Deasphalted Oil — N. I. Kuz'menko, I. P. Lukashevich, S. P. Rogov, B. I. Bondarenko, and T. A. Naumova . . . . .	600	14
Study of Vapor-Liquid Equilibrium for Glycols of Various Molecular Weights — E. I. Shcherbina, A. É. Tenenbaum, V. K. Matveev, and N. F. Grishchenko . . . . .	603	17
<b>ECONOMICS</b>		
Multifactor Analysis and Forecasting of Labor Productivity — L. G. Zlotnikova and E. V. Lashki . . . . .	606	19

**PETROLEUM REFINING EQUIPMENT**

Selection of Optimal Scheme for Fractionation of Hydrocarbon Mixtures in Simple Fractionating Towers — F. B. Petlyuk, S. A. Groisman, Yu. K. Telkov, and M. V. Belov . . . . .	609	22
Influence of Pressure on Certain Indices in Vertical Pneumotransport — B. K. Il'enko, A. R. Brun-Tsekhovoi, and Ya. R. Katsobashvili . . . . .	614	26

**CHEMTECHNOLOGY OF FUELS AND LUBRICANTS**

Physicochemical and Service Properties of Grade RT [Jet] Fuel — B. A. Englin, V. V. Sashevskii, V. M. Karpeev, M. D. Khaikin, E. D. Radchenko, N. F. Troitskii, I. V. Rozhkov, G. B. Skovorodin, and E. P. Seregin . . . . .	619	30
Depletion of Antiwear Additives for Motor Oils during Engine Operation — N. A. Kudryavtseva and T. N. Dvorkina . . . . .	623	33
Influence of Ratio of Low- to High-Molecular-Weight Acids on the Thermal-Oxidative Stability of Complex Calcium Greases — R. D. Novoded, M. V. Bogdanov, and M. E. Krasnokut-skaya . . . . .	626	35
Laboratory Unit for Evaluating Jet Fuel Lubricity — E. I. Gulin and A. R. Belous . . . . .	629	38

Greases to Prevent the Spreading of Organosilicon Fluids on Metal Surfaces—A. A. Kuznetsov, K. I. Klimov, E. P. Mizinova, and L. I. Bolzhenko .....	633	41
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Method of Determining Content of Coke on Catalyst by Means of GOU-1 Gas Analyzer —V. P. Trofimova and I. K. Romankova .....	635	43
Recovery of Vanadyl Porphyrins from Crude Oil by Complexing—N. P. Eletskii, A. N. Plyusnin, and V. I. Titov .....	637	44
Calculation of Molar Average Boiling Point of Petroleum Products—V. I. Kurganov, Z. U. Novikova, and G. Ya. Starodubskaya .....	639	46
Determination of Urea in Four-Component Solution of Hydrocarbon, Isopropanol, Water, and Urea—A. G. Ismailov, S. A. Terteryan, E. Sh. Abdulaev, and V. P. Pilaeva .....	642	48
Determination of Sulfur-Containing Additive in Synthetic Aviation Oils—V. G. Kuznetsov, G. T. Novosartov, V. I. Sharapov, B. N. Klopov, and I. A. Rubinshtein .....	644	49
Use of Preparative Gas-Liquid Chromatography in Investigating the Hydrocarbon Composition of Naphtha Cuts—A. M. Smol'skii, V. I. Kulikov, E. B. Barkovskaya, and Yu. G. Egiazarov .....	646	51
Method for Determining Temperature Corrections of Petroleum Product Density —B. A. Grigor'ev, V. G. Nemzer, and Yu. L. Rastorguev .....	649	53
<b>INFORMATION</b>		
Lubricating Oils with Ultrafine Molybdenum Disulfide or Graphite as an Additive (Review) —I. G. Fuks, È. B. Ivankina, A. P. Kozlovsev, and A. Luksa .....	652	56
<b>BOOK REVIEW</b>		
Z. I. Syunyaev, Production, Upgrading, and Application of Petroleum Coke —Reviewed by A. F. Makhov and A. I. Stekhun .....	657	59
<b>PUBLICITY RELEASE AND TECHNICAL DESCRIPTION</b>		
Method for Producing Gasoline .....	659	61

VOLUME 11, NUMBER 9, SEPTEMBER, 1975

Contribution of Scientists of the Academy of Sciences to the Development of Petroleum Chemistry—S. M. Loktev .....	663	2
Homogeneous Catalysis and New Processes in Petrochemical Synthesis (Review) —V. K. Tsvyakovskii .....	670	8
<b>PETROLEUM AND GAS PROCESSING</b>		
Promotion of Hydrocracking Catalysts by Oxides of Rare-Earth Elements and Rhenium —Ya. R. Katsobashvili, S. A. Golosov, and N. S. Kurkova .....	674	11
Role of Solvent in Liquid-Phase Adsorption Drying of Organic Substances —V. I. Yuzefovich, I. È. Gel'ms, and N. V. Kel'tsev .....	679	15
Kinetics of Desorption of Normal Paraffinic Hydrocarbons on CaA and MgA Zeolites —A. M. Kuliev, R. A. Bagirov, N. I. Nabiev, and A. Yu. Bagirov .....	683	17
Recovery of Sulfides from Petroleum Products by the Use of Adsorbents —G. A. Lobanova, A. V. Kotova, and V. G. Ben'kovskii .....	687	20
Influence of Various Factors on Solid Point of West Siberian Crude Oils —N. V. Nikolaeva, N. M. Smol'yaninova, and S. I. Smol'yaninov .....	691	23
Comparative Characteristics of Aviation Oils Produced from Low-Sulfur and Medium-Sulfur Crudes—A. A. Rozhdestvenskaya, E. V. Voznesenskaya, V. F. Filippov, and I. F. Mel'nikov .....	694	26
Accumulation of Inhibitors in Urea Solution in Dewaxing Petroleum Products —T. A. Smolina, F. A. Chegodaev, B. V. Klimenok, and L. N. Pirkis .....	697	28

Treating High-Viscosity Deasphalting Oils with Phenol in Two Extraction Columns in Series — P. A. Zolotarev and M. F. Biktasheva . . . . .	701	31
Use of Polyelectrolytes in Treating Oil-Contaminated Industrial Wastewater — V. M. Gudasheva and L. V. Verkhotina . . . . .	706	34
<b>ECONOMICS</b>		
Turnover Ratio and Capital Intensity of Asphalt Production — A. M. Zeninskii . . . . .	710	37
<b>PETROLEUM REFINING EQUIPMENT</b>		
Calculation of Transverse Temperature Field in Reaction Tube of Pyrolysis Coil — N. I. Nikitina, L. G. Baryshnikova, and G. G. Ksandopulo . . . . .	714	41
Aerodynamics of Flow in Vibroaerofluidized Bed — G. D. Kavetskii, L. V. Nikonov, V. N. Kartechin, N. G. Krokin, and M. K. Kosheleva . . . . .	717	43
<b>CHEMTECHNOLOGY OF FUELS AND LUBRICANTS</b>		
Properties of Succinimides with Modified Chemical Composition — T. A. Rogachevskaya, A. B. Vipper, T. G. Malysheva, V. L. Lashkhi, A. A. Deryabin, A. A. Markov, M. A. Lisovskaya, and V. N. Bauman . . . . .	722	47
Formation of Carbonaceous Deposits upon Contact of Petroleum Products with Heated Metal Surface — G. S. Shimaev and L. S. Stepanova . . . . .	727	50
Comparative Evaluation of Antioxidant Properties of Additives for Synthetic Lube Oils — T. I. Sarnavskaya, E. V. Lebedev, Yu. T. Gordash, and V. I. Shablil . . . . .	731	54
Polarity and Functional Properties of Soaps of Stearic Acid — Yu. N. Shekhter, T. I. Bogdanova, L. N. Teterina, I. G. Fuks, and I. R. Zaslavskaya . . . . .	734	56
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Study of the Composition of Gas from the Catalytic Cracking of Vacuum Gas Oil, by Means of Capillary Gas Chromatography — T. E. Alyanova, N. I. Lulova, and A. V. Kuz'mina . . . . .	738	59
<b>INFORMATION</b>		
Section Meeting of the Scientific-Technical Council of the Ministry of the Petroleum Refining and Petrochemical Industry of the USSR on Problems in the Area of Lubricating-Cooling Fluids (LCF) and Process Lubricants (PL) — G. I. Kaz'min . . . . .	743	62

VOLUME 11, NUMBER 10, OCTOBER, 1975

Problems in Petroleum Refining and Petrochemical Production at the 9th World Petroleum Congress — E. D. Radchenko . . . . .	747	2
Fiftieth Anniversary of the Moscow Petroleum Lubricating Oil Plant — L. S. Shakhsayyan . . . . .	754	8
<b>PETROLEUM AND GAS PROCESSING</b>		
Conversions of High-Molecular-Weight Paraffins in Hydrocracking at Moderate Pressures — Ya. R. Katsobashvili and B. N. Nechaev . . . . .	757	11
Expanding the Production of AI-93 and AI-98 High-Octane Automotive Gasolines — V. S. Aliev, M. I. Rustamov, E. I. Pryanikov, É. K. Airapetova, A. D. Guseinova, B. S. Khydyrov, G. D. Klionskaya, and Kh. N. Abad-Zade . . . . .	762	14
Investigation of Phosphorus/Kieselguhr Catalyst Modified by Addition of Zeolite — Yu. R. Abdurakhimov, Zh. F. Galimov, E. A. Bugai, N. Kh. Valitov, Z. G. Belyaeva, and K. L. Balandina . . . . .	765	16
Kinetics of Wax Deposition and Its Movement in a Pipeline — N. I. Gel'perin, G. I. Lapshenkov, A. L. Taran, and A. V. Taran . . . . .	769	19
Nonlinearity of Blending Characteristics in Relation to Content of TEL in Blend — B. M. Egidis, É. K. Laskovenko, and I. F. Chuprin . . . . .	774	23

Antioxidant Susceptibility of Base Oils from Hydrocracking – V. Z. Zlotnikov, V. I. Karzhev, and N. V. Shavolina . . . . .	777	25
Use of Filter-Aid Powders in Removing Solid Contaminants from Intermediate Products in Manufacture of Succinimide Additives – A. S. Soroka . . . . .	780	27
<b>ECONOMICS</b>		
Automation of Calculation and Analysis of Economic Stimulation Funds – L. V. Zyablova . . . . .	784	30
<b>PETROLEUM REFINING EQUIPMENT</b>		
Unit for Modeling Hydrocarbon Pyrolysis Process – V. A. Men'shikov, Yu. G. Fal'kovich, and T. N. Mukhina . . . . .	789	34
Automatic Control of Centrifuge Loading in Urea Dewaxing Process – L. P. Losev and A. G. Martynenko . . . . .	793	37
<b>CHEMMOTEOLOGY OF FUELS AND LUBRICANTS</b>		
Industry-Branch Unification of Diesel Oil Grades – V. D. Reznikov and V. M. Shkol'nikov . . . . .	796	39
Structurization of Lithium Soaps in Organic Media Differing in Polarity – V. V. Perekrustova, I. G. Fuks, T. V. Fedorova, and B. N. Kartinin . . . . .	799	42
Effect of Succinimide Additives on Service Properties of Motor Oils – V. I. Karzhev, Yu. V. Granovskii, V. I. Nazarov, and G. V. Gorbunov . . . . .	804	46
Volatility and Thermal-Oxidative Stability of Synthetic Ester Oils – T. I. Samavskaya, E. V. Lebedev, N. A. Kholodenko, and T. E. Pivovarova . . . . .	807	49
Pour-Depressant Additives for Diesel Fuels – S. R. Lebedev, R. M. Berezina, and Ya. B. Chertkov . . . . .	811	52
Standard Allowable Limit for Carbon-Deposit Formation in Diesel Engines – S. M. Muzikus, M. I. Fedorov, and E. I. Frolov . . . . .	815	55
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Correlation for Calculating Heat of Vaporization of Nonpolar Substances – N. K. Bolotin, A. M. Shelomentsev, and S. T. Yankova . . . . .	818	57
Instrument for Measuring Slump of Pyramid in Determination of Melting Point of Ash from Petroleum Products – I. N. Kravchenko, M. I. Lobskii, and D. M. Yatsiv . . . . .	820	58
<b>INFORMATION</b>		
All-Union Conference on Lubricating Greases – I. G. Fuks and Yu. L. Ishchuk . . . . .	822	60
Utilization of New Technology, as Reviewed by the Scientific and Engineering Community – E. D. Terman . . . . .	824	62
<b>VOLUME 11, NUMBER 11, NOVEMBER, 1975</b>		
Greetings to the 25th Congress of the Communist Party of the Soviet Union . . . . .	829	2
<b>PETROLEUM AND GAS PROCESSING</b>		
Problems of Chemmotology at the Ninth World Petroleum Congress – K. K. Papok and E. P. Seregin . . . . .	833	6
Crude Oil from Kara-Kuduk Field – F. Z. Sagidova, M. D. Sokol'nikova, K. A. Umarova, M. K. Rizaeva, and T. I. Eidina . . . . .	839	11
Mass Spectrometric Study of Nitrogen Bases in Distillate Cuts from Sakhalin Crude – N. G. Baranova, N. V. Razumov, and E. S. Brodskii . . . . .	841	13
Stability of Structural-Mechanical Properties of Catalysts Based on Aluminum Oxide with Mineralizing and Stabilizing Oxides – Ya. R. Katsobashvili, N. S. Kurkova, V. F. Safonova, O. V. Bukhtenko, and M. A. Filippova . . . . .	844	15
Structure of Waxes Recovered from Crude Oil Emulsion Stabilizer – G. M. Makhonin, A. A. Petrov, and I. V. Veretennikova . . . . .	850	19

Thermal Stability and Composition of Products from Thermal Breakdown of Additives "ABES" as Determined by Pyrolytic Gas Chromatography			
— N. A. Kudryavtseva, A. A. Fufaev, and S. B. Borshchevskii . . . . .	853	22	
Development of Contact Method for Neutralization of Synthetic Ester Oils			
— M. A. Mamed'yarov, I. S. Kevorkova, and Ya. A. Veliava . . . . .	858	25	
Hydrocracking Straight-Run Naphthas to Produce Isobutane and Isopentane			
— V. A. Khavkin, S. P. Rogov, A. V. Agafonov, I. T. Kozlov, L. N. Osipov, N. I. Lulova, and S. A. Leont'eva . . . . .	861	27	
<b>ECONOMICS</b>			
Profitability in Production of Light Hydrocarbon Feedstock in the Petroleum Refining Industry — E. A. Silkin and G. V. Puzevich . . . . .	865	30	
Establishing Standards for Consumption of Caustic Soda in Treating Liquefied Gases (LPG) to Remove Mercaptans — G. V. Tukov, N. N. Ivanova, A. N. Sadykov, A. M. Polotskii, and N. A. Glebova . . . . .	869	33	
<b>CHEMMOTOLGY OF FUELS AND LUBRICANTS</b>			
Role of Interfacial Electric Potentials in Functional Mechanism of Motor Oil Additives			
— G. I. Shor, V. P. Lapin, G. L. Trofimova, and T. D. Lushnikova . . . . .	873	36	
Selection of Optimal Additive Concentration for Engine/Transmission Oil by Mathematical Design of Experiments — S. A. Konakova, I. É. Vinogradova, and I. F. Blagovidov . . . . .	878	40	
Effect of Temperature on Chemical Stability of Fuels — V. S. Azev and N. V. Stryuk . . . . .	881	42	
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>			
Determination of Demulsifier Content of Crude Oil — D. N. Levchenko and N. N. Lavrova . . . . .	885	45	
Atomic Absorption Method of Determination of Sodium in Rhodium-Complex Catalysts			
— Z. T. Yunusov and D. A. Agievskii . . . . .	887	46	
Photoelectric Sedimentation Method of Analysis for Dispersity of Zeolite Suspensions			
— V. G. Remizov, Z. I. Shirokova, and S. I. Rabinovich . . . . .	889	48	
A Generalized Representation of the "Rectilinear Diameter" Rule — N. K. Bolotin, A. M. Shelomentsev, and M. Yu. Tyutyunnikov . . . . .	892	50	
Semiautomatic Meter for Moisture Content of Greases and Additives			
— A. M. Manoil, N. M. Terebii, Yu. L. Ishchuk, Yu. T. Gordash, G. B. Froishteter, V. A. Abushek, and I. R. Korbut . . . . .	895	51	
<b>INFORMATION</b>			
Fuel Additives in Current Commercial Use Outside the USSR — Z. A. Sablina, G. B. Shirokova, T. I. Ermakova, and V. P. Lazarenko . . . . .	897	53	
Fire-Resistant Emulsion Fluids for Hydraulic Systems (Review) — L. N. Lapshina and A. A. Chesnokov . . . . .	902	57	
We Congratulate the Hero of the Day . . . . .	908	62	

**VOLUME 11, NUMBER 12, DECEMBER, 1975**

<b>PETROLEUM AND GAS PROCESSING</b>			
Crude Oil Pretreatment and Environmental Protection — Ya. G. Sorkin . . . . .	913	2	
Composition and Properties of Gas Condensate from Vuktyl Field, and Trends in Processing			
— Yu. G. Egiazarov, N. A. Gorechenkova, P. I. Korotkov, B. Kh. Cherches, and Z. G. Burak . . . . .	916	4	
Dearomatization of Liquid Paraffins with Sulfuric Acid — A. G. Ismailov, S. A. Terteryan, I. D. Babaev, and E. Sh. Abdullaev . . . . .	920	6	
Comparison of Efficiencies of Various Solvents Used in Dearomatizing Kerosine Distillates from East Ukrainian Crudes — A. S. Zhurba, V. P. Levenets, A. E. Bondar', and G. V. Sabirova . . . . .	923	8	
Thermal-Oxidative Breakdown of Copolymers of Isobutylene with Isopropenyltoluenes in Mineral Oil Solution — Z. A. Sadykhov and T. G. Khanlarov . . . . .	928	11	

ESR Study of Adsorptivity of Urea and n-Alkane Adducts — A. N. Belousov, N. G. Yaralov, A. G. Martynenko, É. L. Borovnneva, and A. A. Kuznetsov . . . . .	931	13
Physicochemical Study of High-Melting Asphalts — E. P. Glazman, V. V. Fryazinov, R. S. Akhmetova, and L. R. Torbeeva . . . . .	934	16
Thermal Stability of Sulfur Compounds in Heavy Petroleum Residual Stocks — Yu. S. Sabadash, R. G. Provkina, and T. V. Kochetkova . . . . .	938	18
Investigation of Asphaltene Structure by X-Ray Diffraction — G. M. Makhonin and A. A. Petrov . . . . .	942	21
Tar Formation and Decrease of Mass Transfer Efficiency in Extractor for the Solvent Extraction of Aromatic Hydrocarbons with Diethylene Glycol — I. I. Barkov, K. G. Sharonov, A. M. Rozhnov, V. D. Izmailov, and A. V. Lazarev . . . . .	947	25
<b>ECONOMICS</b>		
Influence of Added New Capacity on the Level of Growth of the Petroleum Refining and Petrochemical Industry — V. M. Kirpichev, L. S. Kraeva, L. A. Gusel'nikova, and É. L. Popova . . . . .	950	27
Increasing the Role of Prices in Stimulating Scientific-Technical Progress in the Petroleum Refining Industry — L. G. Zlotnikova, M. V. Makkaveev, L. G. Alieva, V. P. Kalinina, and E. V. Lashkhi . . . . .	955	30
<b>PETROLEUM REFINING EQUIPMENT</b>		
Determination of Hydraulic Resistance in Pneumotransport in Fluidized State — B. F. Stepochkin and A. M. Konakhin . . . . .	959	33
<b>CHEMOTECNOLOGY OF FUELS AND LUBRICANTS</b>		
Thermal Stability of Detergent Additives for Motor Oils — L. A. Radchenko, V. L. Lashkhi, O. G. Susanina, and A. B. Vipper . . . . .	963	36
Influence of Resinous Substances (Gum) on Protective Properties of Diesel Fuels — A. A. Gureev, L. A. Aleksandrova, A. D. Fat'yanov, Al. A. Gureev, A. A. Kukushkin, and N. A. Pavlenko . . . . .	966	38
Influence of Structure Formation and Electrostatic Charging on Viscosity of Oil in a Narrow Gap — S. D. Likhterov, V. P. Lapin, and G. I. Shor . . . . .	970	41
Effect of Shale-Tar Additives on Antiwear Properties of Motor Oils — N. I. Zelenin, E. I. Gulin, V. S. Demchenko, E. E. Nikitin, and D. P. Yakubo . . . . .	973	43
Reasons for Extremal Nature of Sediment Formation in Fuel Oxidation — G. S. Shimonaev and L. S. Stepanova . . . . .	976	45
<b>METHODS OF ASSESSING FUEL AND OIL QUALITY</b>		
Microchromatographic Analysis of Products from Condensation of Alkyphenols with Ammonia and Formaldehyde to Produce Additive INKhP-21 — V. A. Zakupra, É. V. Kolosova, Yu. T. Gordash, and A. K. Sopkina . . . . .	980	48
Particle Size Analysis of Solid Contaminants in PMS and PMSya [overbased] Sulfonate Additives — V. F. Khromykh, M. S. Kristal'naya, T. A. Babash, M. D. Safronova, V. V. Pashuk, and G. S. V'yulkova . . . . .	985	52
Determination of Metal Contents in Used Lube Oils by Means of Atomic Absorption Spectrometry — V. A. Vilenkin, L. L. Kalinin, and Yu. V. Mikulin . . . . .	988	56
<b>INDEX</b>		
Author Index, Volume 11, Numbers 1-12, 1975 . . . . .	993	
Tables of Contents, Volume 11, Numbers 1-12, 1975 . . . . .	999	

